

FULL ESTIMATED COST 0.21 0.21

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FILE COVERS 1907 - 20 Sep 2004 VOL 141 ISS 13  
 FILE LAST UPDATED: 19 Sep 2004 (20040919/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s raf {} kinase
      5313 RAF
      52 RAFS
      5346 RAF
      (RAF OR RAFS)
      223150 KINASE
      44622 KINASES
      230583 KINASE
      (KINASE OR KINASES)
L1      784 RAF (W) KINASE

=> s l1 and inhibitor?
      894275 INHIBITOR?
L2      347 L1 AND INHIBITOR?

=> s l2 and carcinoma? {} lung?
      122251 CARCINOMA?
      172706 LUNG?
      333 CARCINOMA? (W) LUNG?
L3      0 L2 AND CARCINOMA? (W) LUNG?

=> s l2 and carcinoma?
      122251 CARCINOMA?
L4      32 L2 AND CARCINOMA?

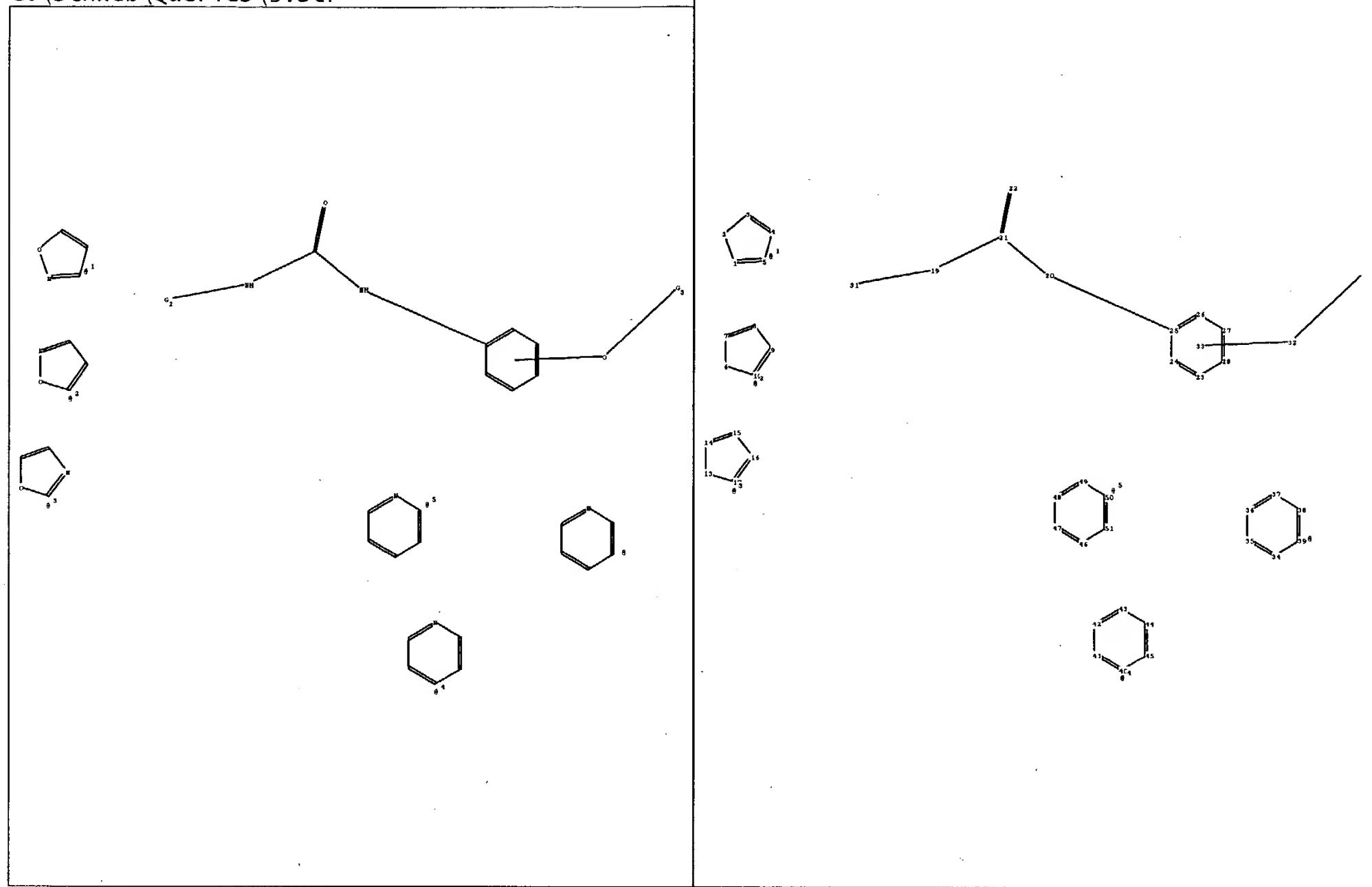
=> s l4 and review/dt
      1758970 REVIEW/DT
L5      1 L4 AND REVIEW/DT

=> d l5, ibib abs, 1
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L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text References

ACCESSION NUMBER: 2003:736198 HCAPLUS



chain nodes :

19 20 21 22 31 32 58

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 23 24 25 26 27 28 34 35 36 37  
38 39 40 41 42 43 44 45 46 47 48 49 50 51

chain bonds :

19-21 19-31 20-21 20-25 21-22 32-58

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 13-14 13-17 14-15 15-16 16-17  
23-24 23-28 24-25 25-26 26-27 27-28 34-35 34-39 35-36 36-37 37-38 38-39 40-41  
40-45 41-42 42-43 43-44 44-45 46-47 46-51 47-48 48-49 49-50 50-51

exact/norm bonds :

1-5 7-8 15-16 16-17 19-21 19-31 20-21 20-25 21-22 32-58

exact bonds :

1-2 2-3 3-4 4-5 6-7 6-10 8-9 9-10 13-14 13-17 14-15

normalized bonds :

23-24 23-28 24-25 25-26 26-27 27-28 34-35 34-39 35-36 36-37 37-38 38-39 40-41  
40-45 41-42 42-43 43-44 44-45 46-47 46-51 47-48 48-49 49-50 50-51

isolated ring systems :

containing 1 : 6 : 13 : 23 : 34 : 40 : 46 :

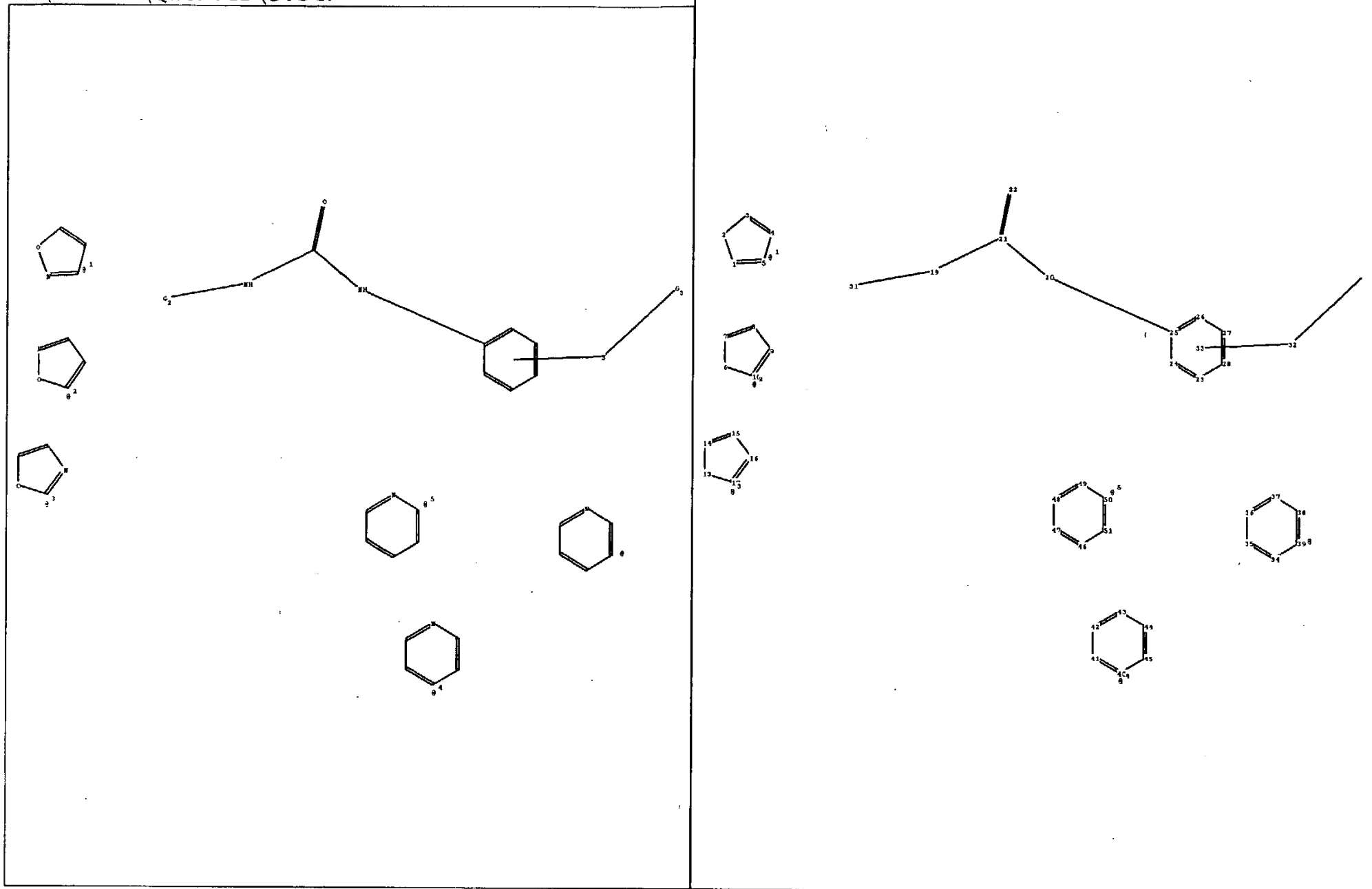
G1:O,S

G2:[\*1],[\*2],[\*3]

G3:Ph,[\*4],[\*5]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:Atom  
14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:Atom  
24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 31:CLASS 32:CLASS 33:CLASS 34:Atom  
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom  
45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 58:CLASS



chain nodes :

19 20 21 22 31 32 58

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 23 24 25 26 27 28 34 35 36 37  
38 39 40 41 42 43 44 45 46 47 48 49 50 51

chain bonds :

19-21 19-31 20-21 20-25 21-22 32-58

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 13-14 13-17 14-15 15-16 16-17  
23-24 23-28 24-25 25-26 26-27 27-28 34-35 34-39 35-36 36-37 37-38 38-39 40-41  
40-45 41-42 42-43 43-44 44-45 46-47 46-51 47-48 48-49 49-50 50-51

exact/norm bonds :

1-5 7-8 15-16 16-17 19-21 19-31 20-21 20-25 21-22 32-58

exact bonds :

1-2 2-3 3-4 4-5 6-7 6-10 8-9 9-10 13-14 13-17 14-15

normalized bonds :

23-24 23-28 24-25 25-26 26-27 27-28 34-35 34-39 35-36 36-37 37-38 38-39 40-41  
40-45 41-42 42-43 43-44 44-45 46-47 46-51 47-48 48-49 49-50 50-51

isolated ring systems :

containing 1 : 6 : 13 : 23 : 34 : 40 : 46 :

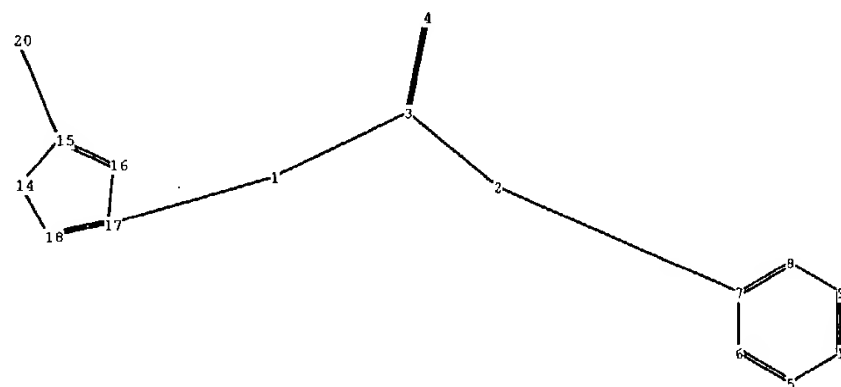
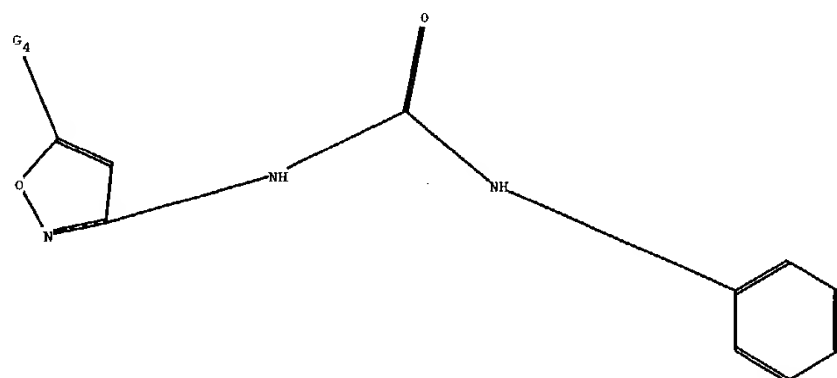
G1:O,S

G2:[\*1],[\*2],[\*3]

G3:Ph,[\*4],[\*5]

Match level :

1:Atom	2:Atom	3:Atom	4:Atom	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom	10:Atom	13:Atom
14:Atom	15:Atom	16:Atom	17:Atom	19:CLASS	20:CLASS	21:CLASS	22:CLASS	23:Atom		
24:Atom	25:Atom	26:Atom	27:Atom	28:Atom	31:CLASS	32:CLASS	33:CLASS	34:Atom		
35:Atom	36:Atom	37:Atom	38:Atom	39:Atom	40:Atom	41:Atom	42:Atom	43:Atom	44:Atom	
45:Atom	46:Atom	47:Atom	48:Atom	49:Atom	50:Atom	51:Atom	58:CLASS			



chain nodes :

1 2 3 4 20

ring nodes :

5 6 7 8 9 10 14 15 16 17 18

chain bonds :

1-3 1-17 2-3 2-7 3-4 15-20

ring bonds :

5-6 5-10 6-7 7-8 8-9 9-10 14-15 14-18 15-16 16-17 17-18

exact/norm bonds :

1-3 1-17 2-3 2-7 3-4 14-15 14-18 15-16 15-20 16-17 17-18

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10

G1:O,S

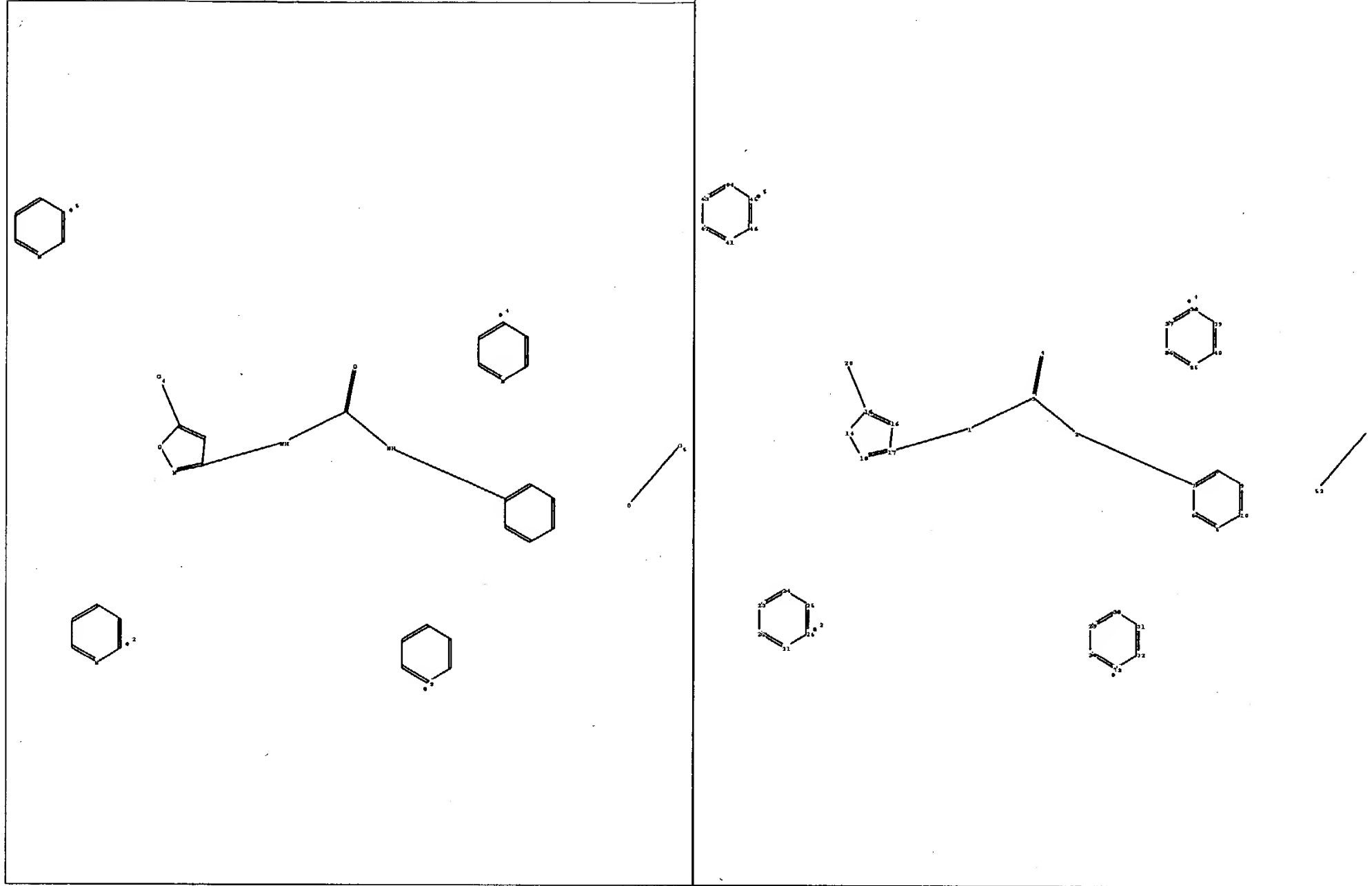
G2

G3:Ph

G4:Cb,Ak

Match level :

1:CLASS	2:CLASS	3:CLASS	4:CLASS	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom	10:Atom
14:Atom	15:Atom	16:Atom	17:Atom	18:Atom	20:CLASS				



chain nodes :

1 2 3 4 20 51 52

ring nodes :

5 6 7 8 9 10 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 35  
36 37 38 39 40 41 42 43 44 45 46

chain bonds :

1-3 1-17 2-3 2-7 3-4 15-20 51-52

ring bonds :

5-6 5-10 6-7 7-8 8-9 9-10 14-15 14-18 15-16 16-17 17-18 21-22 21-26 22-23  
23-24 24-25 25-26 27-28 27-32 28-29 29-30 30-31 31-32 35-36 35-40 36-37 37-38  
38-39 39-40 41-42 41-46 42-43 43-44 44-45 45-46

exact/norm bonds :

1-3 1-17 2-3 2-7 3-4 15-20 17-18 51-52

exact bonds :

14-15 14-18 15-16 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10 21-22 21-26 22-23 23-24 24-25 25-26 27-28 27-32  
28-29 29-30 30-31 31-32 35-36 35-40 36-37 37-38 38-39 39-40 41-42 41-46 42-43  
43-44 44-45 45-46

isolated ring systems :

containing 5 : 14 : 21 : 27 : 35 : 41 :

G1:O,S

G2

G3:Ph

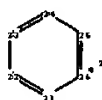
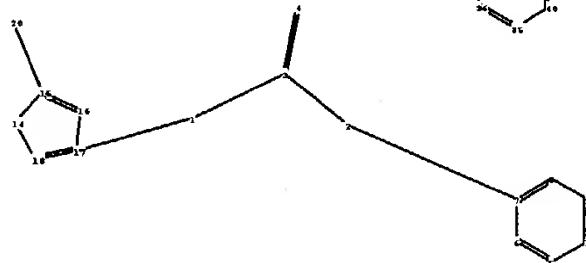
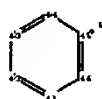
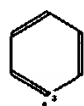
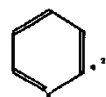
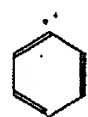
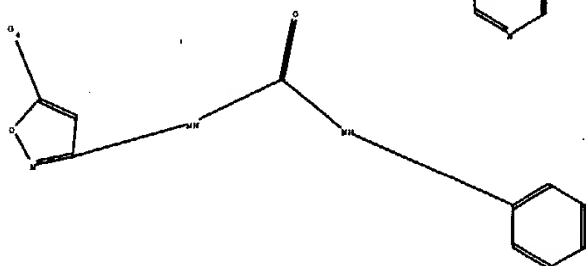
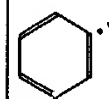
G4:Cb,Ak

G5:[\*2],[\*3],[\*4],[\*5]

Match level :

1:CLASS	2:CLASS	3:CLASS	4:CLASS	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom	10:Atom
14:Atom	15:Atom	16:Atom	17:Atom	18:Atom	20:CLASS	21:Atom	22:Atom	23:Atom	24:Atom
25:Atom	26:Atom	27:Atom	28:Atom	29:Atom	30:Atom	31:Atom	32:Atom	35:Atom	36:Atom
37:Atom	38:Atom	39:Atom	40:Atom	41:Atom	42:Atom	43:Atom	44:Atom	45:Atom	46:Atom
51:CLASS	52:CLASS								

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chain nodes :

1 2 3 4 20 51 52

ring nodes :

5 6 7 8 9 10 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 35  
36 37 38 39 40 41 42 43 44 45 46

chain bonds :

1-3 1-17 2-3 2-7 3-4 15-20 51-52

ring bonds :

5-6 5-10 6-7 7-8 8-9 9-10 14-15 14-18 15-16 16-17 17-18 21-22 21-26 22-23  
23-24 24-25 25-26 27-28 27-32 28-29 29-30 30-31 31-32 35-36 35-40 36-37 37-38  
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1-3 1-17 2-3 2-7 3-4 15-20 17-18 51-52

exact bonds :

14-15 14-18 15-16 16-17

normalized bonds :

5-6 5-10 6-7 7-8 8-9 9-10 21-22 21-26 22-23 23-24 24-25 25-26 27-28 27-32  
28-29 29-30 30-31 31-32 35-36 35-40 36-37 37-38 38-39 39-40 41-42 41-46 42-43  
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G1:O,S

G2

G3:Ph

G4:Cb,Ak

G5:[\*2],[\*3],[\*4],[\*5]

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1:CLASS	2:CLASS	3:CLASS	4:CLASS	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom	10:Atom
14:Atom	15:Atom	16:Atom	17:Atom	18:Atom	20:CLASS	21:Atom	22:Atom	23:Atom	24:Atom
25:Atom	26:Atom	27:Atom	28:Atom	29:Atom	30:Atom	31:Atom	32:Atom	35:Atom	36:Atom
37:Atom	38:Atom	39:Atom	40:Atom	41:Atom	42:Atom	43:Atom	44:Atom	45:Atom	46:Atom
51:CLASS	52:CLASS								



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<u>NEWS 4</u>	May 12	Polymer links for the POLYLINK command completed in REGISTRY
<u>NEWS 5</u>	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
<u>NEWS 6</u>	May 27	CAplus super roles and document types searchable in REGISTRY
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<u>NEWS 10</u>	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
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<u>NEWS 12</u>	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
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<u>NEWS 17</u>	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
<u>NEWS 18</u>	SEP 01	INPADOC: New family current-awareness alert (SDI) available
<u>NEWS 19</u>	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
<u>NEWS 20</u>	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
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FILE 'HOME' ENTERED AT 14:48:16 ON 20 SEP 2004

=> file heaplus

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

h eb c g cg b cg

eb

FULL ESTIMATED COST

0.21

0.21

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FILE COVERS 1907 - 20 Sep 2004 VOL 141 ISS 13

FILE LAST UPDATED: 19 Sep 2004 (20040919/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; s raf {} kinase

5313 RAF

52 RAFS

5346 RAF

(RAF OR RAFS)

223150 KINASE

44622 KINASES

230583 KINASE

(KINASE OR KINASES)

L1 784 RAF (W) KINASE

=&gt; s l1 and inhibitor?

894275 INHIBITOR?

L2 347 L1 AND INHIBITOR?

=&gt; s l2 and carcinoma? {} lung?

122251 CARCINOMA?

172706 LUNG?

333 CARCINOMA? (W) LUNG?

L3 0 L2 AND CARCINOMA? (W) LUNG?

=&gt; s l2 and carcinoma?

122251 CARCINOMA?

L4 32 L2 AND CARCINOMA?

=&gt; s l4 and review/dt

1758970 REVIEW/DT

L5 1 L4 AND REVIEW/DT

=&gt; d l5, ibib abs, 1

L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER: 2003:736198 HCAPLUS

h

eb c

g cg b

cg

eb

DOCUMENT NUMBER: 139:301125  
 TITLE: BAY-43-9006 (Bayer/Onyx)  
 AUTHOR(S): Lee, John T.; McCubrey, James A.  
 CORPORATE SOURCE: Department of Microbiology and Immunology, Brody  
 School of Medicine at East Carolina University,  
 Greenville, NC, 27858-4353, USA  
 SOURCE: Current Opinion in Investigational Drugs (Thomson  
 Current Drugs) (2003), 4(6), 757-763  
 CODEN: COIDAZ; ISSN: 1472-4472  
 PUBLISHER: Thomson Current Drugs  
 DOCUMENT TYPE: Journal; **General Review**  
 LANGUAGE: English  
 AB A review. Bayer and Onyx are developing BAY-43-9006, an oral cytostatic  
**Raf kinase inhibitor** for the potential treatment of colorectal and  
 breast cancers, hepatocellular **carcinoma** and non-small-cell lung cancer,  
 in addn. to acute myelogenous leukemia, myelodysplastic syndrome and other  
 cancers. A US IND was filed in May 2000 and by Feb. 2003 BAY-43-9006 was  
 in phase II trials, with phase III trials expected to begin later in 2003.  
 REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:48:16 ON 20 SEP 2004)

FILE 'HCAPLUS' ENTERED AT 14:48:22 ON 20 SEP 2004

L1 784 S RAF () KINASE  
 L2 347 S L1 AND INHIBITOR?  
 L3 0 S L2 AND CARCINOMA? () LUNG?  
 L4 32 S L2 AND CARCINOMA?  
 L5 1 S L4 AND REVIEW/DT

=> s l2 and adenoma?

13502 ADENOMA?

L6 2 L2 AND ADENOMA?

=> s l6 and review/dt

1758970 REVIEW/DT

L7 0 L6 AND REVIEW/DT

=> s l2 and cancer?

236073 CANCER?

L8 108 L2 AND CANCER?

=> s l8 and lung?

172706 LUNG?

L9 29 L8 AND LUNG?

=> s l9 and review/dt

1758970 REVIEW/DT

L10 3 L9 AND REVIEW/DT

=> d l10, ibib abs, 1-3

L10 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full  
Text

ibib  
References

ACCESSION NUMBER: 2004:309398 HCAPLUS

DOCUMENT NUMBER: 141:21179

TITLE: **Raf kinase inhibitor** protein: a prostate **cancer** metastasis suppressor gene  
 AUTHOR(S): Keller, Evan T.; Fu, Zheng; Yeung, Kam; Brennan, Meghan  
 CORPORATE SOURCE: Department of Urology, University of Michigan, Ann Arbor, MI, 48109-0940, USA  
 SOURCE: Cancer Letters (Amsterdam, Netherlands) (2004), 207(2), 131-137  
 CODEN: CALEDQ; ISSN: 0304-3835  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal; **General Review**  
 LANGUAGE: English

AB A review. Defining the mechanisms that confer metastatic ability on **cancer** cells is an important goal towards prevention of metastasis. A gene array screen between a non-metastatic prostate **cancer** cell and its metastatic deriv. line revealed decreased expression of **Raf kinase inhibitor** protein (RKIP) in the metastatic cell line. This finding is consistent with the possibility that loss of RKIP is assocd. with metastasis. RKIP is expressed in many tissues including brain, **lung**, and liver. RKIP blocks Raf-induced phosphorylation of MEK. In addn. to its modulation of Raf signaling, RKIP modulates both G-protein signaling and NF- $\kappa$ B activity. The impact that RKIP has on multiple signaling pathways grants it the ability to play a role in several cellular functions including membrane biosynthesis, spermatogenesis, and neural signaling. Novel cellular functions for RKIP continue to be identified, several of which contribute to **cancer** biol. For example, RKIP promotes apoptosis of **cancer** cells, which suggests that loss of RKIP in **cancer** will protect **cancer** cells against cell death. Addnl., restoration of RKIP expression in a metastatic prostate **cancer** cell line does not effect primary tumor growth, but it does inhibit prostate **cancer** metastasis. These parameters identify RKIP as a metastasis suppressor gene, which suggest that it or proteins it interacts are putative mol. targets to control metastasis. These findings are supported by the observation that RKIP expression is decreased in metastases of prostate **cancer** patients, compared to normal prostate or the primary prostate tumor. In this review, RKIP biol. and its role in **cancer** will be described.

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN



ACCESSION NUMBER: 2003:736198 HCAPLUS  
 DOCUMENT NUMBER: 139:301125  
 TITLE: BAY-43-9006(Bayer/Onyx)  
 AUTHOR(S): Lee, John T.; McCubrey, James A.  
 CORPORATE SOURCE: Department of Microbiology and Immunology, Brody School of Medicine at East Carolina University, Greenville, NC, 27858-4353, USA  
 SOURCE: Current Opinion in Investigational Drugs (Thomson Current Drugs) (2003), 4(6), 757-763  
 CODEN: COIDAZ; ISSN: 1472-4472  
 PUBLISHER: Thomson Current Drugs  
 DOCUMENT TYPE: Journal; **General Review**  
 LANGUAGE: English  
 AB A review. Bayer and Onyx are developing BAY-43-9006, an oral cytostatic **Raf kinase inhibitor** for the potential treatment of colorectal and breast **cancers**, hepatocellular carcinoma and non-small-cell **lung cancer**, in addn. to acute myelogenous leukemia, myelodysplastic syndrome

and other **cancers**. A US IND was filed in May 2000 and by Feb. 2003 BAY-43-9006 was in phase II trials, with phase III trials expected to begin later in 2003.

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

**Full Text** **References**

ACCESSION NUMBER: 2002:363470 HCAPLUS  
DOCUMENT NUMBER: 137:229993  
TITLE: The role of **Raf kinases** in malignant transformation  
AUTHOR(S): Kolch, Walter; Kotwaliwale, Ashwin; Vass, Keith; Janosch, Petra  
CORPORATE SOURCE: Institute for Biomedical and Life Sciences, University of Glasgow, Glasgow, G12 8QQ, UK  
SOURCE: Expert Reviews in Molecular Medicine [online computer file] (2002) No pp. given  
CODEN: ERMMEF; ISSN: 1462-3994  
URL: <http://www.expertreviews.org/02004386a.pdf>  
PUBLISHER: Cambridge University Press  
DOCUMENT TYPE: Journal; **General Review**; (online computer file)  
LANGUAGE: English

AB A review. The **Raf kinases** are proto-oncogenes that work at the entry point of the mitogen-activated protein kinase/extracellular-signal-regulated kinase (MAPK/ERK) pathway, a signalling module that connects cell-surface receptors and Ras proteins to nuclear transcription factors. The pathway impinges on all the functional hallmarks of **cancer** cells: immortalization, growth-factor-independent proliferation, insensitivity to growth-inhibitory signals, ability to invade and metastasize, ability to attract blood vessels, and evasion of apoptosis. Indeed, the pathway is hyperactivated in 30% of all human tumors including prevalent **cancers** of the colon and **lung**. The mol. mechanisms underlying the role of **Raf kinase** in tumorigenesis and the opportunities for therapeutic intervention are reviewed in this article.

REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 0 S L2 AND CARCINOMA? () LUNG?  
L4 32 S L2 AND CARCINOMA?  
L5 1 S L4 AND REVIEW/DT  
L6 2 S L2 AND ADENOMA?  
L7 0 S L6 AND REVIEW/DT  
L8 108 S L2 AND CANCER?  
L9 29 S L8 AND LUNG?  
L10 3 S L9 AND REVIEW/DT

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68591 PANCREAS?

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1758970 REVIEW/DT

L18 1 L17 AND REVIEW/DT

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L18 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text References

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DOCUMENT NUMBER: 137:229993  
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CORPORATE SOURCE: Institute for Biomedical and Life Sciences, University of Glasgow, Glasgow, G12 8QQ, UK  
SOURCE: Expert Reviews in Molecular Medicine [online computer file] (2002) No pp. given  
CODEN: ERMDFS; ISSN: 1462-3994  
URL: <http://www.expertreviews.org/02004386a.pdf>  
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 L16 0 S L15 AND REVIEW/DT  
 L17 35 S L2 AND COLON?  
 L18 1 S L17 AND REVIEW/DT

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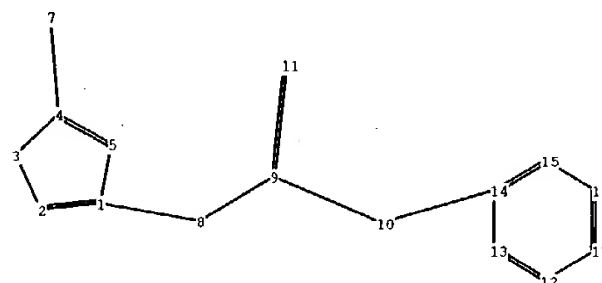
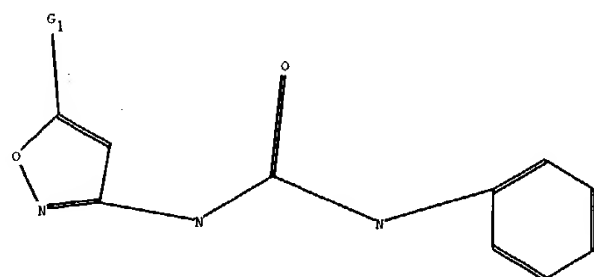


DOCUMENT NUMBER: 139:301125  
 TITLE: BAY-43-9006(Bayer/Onyx)  
 AUTHOR(S): Lee, John T.; McCubrey, James A.  
 CORPORATE SOURCE: Department of Microbiology and Immunology, Brody  
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 SOURCE: Current Opinion in Investigational Drugs (Thomson  
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 CODEN: COIDAZ; ISSN: 1472-4472  
 PUBLISHER: Thomson Current Drugs  
 DOCUMENT TYPE: Journal; **General Review**  
 LANGUAGE: English

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27,  
C87*

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 REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS  
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chain nodes :

7 8 9 10 11

ring nodes :

1 2 3 4 5 12 13 14 15 16 17

chain bonds :

1-8 4-7 8-9 9-10 9-11 10-14

ring bonds :

1-2 1-5 2-3 3-4 4-5 12-13 12-17 13-14 14-15 15-16 16-17

exact/norm bonds :

1-2 1-8 4-7 8-9 9-10 9-11 10-14

exact bonds :

1-5 2-3 3-4 4-5

normalized bonds :

12-13 12-17 13-14 14-15 15-16 16-17

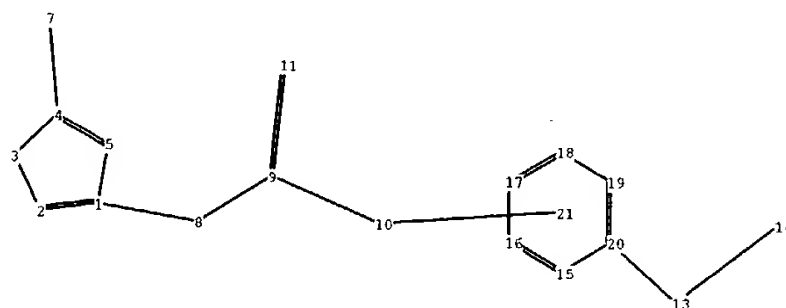
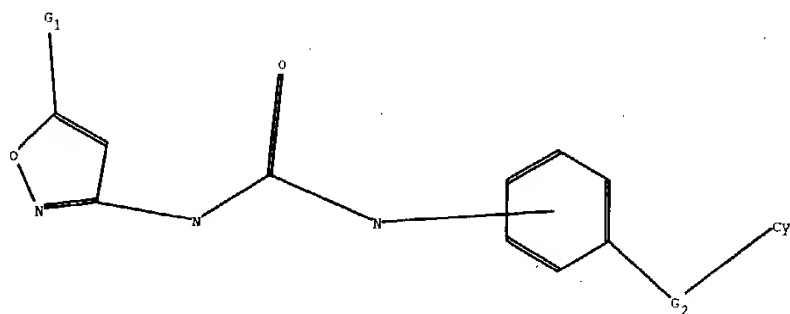
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containing 1 : 12 :

G1:Cb,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom



chain nodes :

7 8 9 10 11 13 14

ring nodes :

1 2 3 4 5 15 16 17 18 19 20

chain bonds :

1-8 4-7 8-9 9-10 9-11 13-14 13-20

ring bonds :

1-2 1-5 2-3 3-4 4-5 15-16 15-20 16-17 17-18 18-19 19-20

exact/norm bonds :

1-2 1-8 4-7 8-9 9-10 9-11 13-14 13-20

exact bonds :

1-5 2-3 3-4 4-5

normalized bonds :

15-16 15-20 16-17 17-18 18-19 19-20

isolated ring systems :

containing 15 :

G1:Cb,Ak

G2:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS  
13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS